		CONTINUITY		-					
Mathematics CROSSWALK: 1997 MLR to 2007 MLR	Is it in the 2007 standards?	Is the CONCEPT/ IDEA the same?	Is the WORDING the same?	WHERE is it found? (Standard, PI, Descriptor)	Is it at the same grade span or grade level?	Bloom's	At what level of Bloom's taxonomy is the COGNITIVE DEMAND in the 2007 MLR?		
In the coding, PK-2 is represented by (2), 9-D by (9). If no indiexpectation. Special attention should be paid to implications A. NUMBERS AND NUMBER SENSE					tor(s) is spe	ecified then the e	entire indicator is	s matched to	the
Students will understand and demonstrate a sens	se of what nu	ımbers mea	n and how t	hey are used	I. Student	ts will be able	to:		
ELEMENTARY GRADES Pre-K-2 1. Demonstrate an understanding of what numbers mean (e.g., that the number 7 stands for a group of objects). 2. Understand the many uses of numbers (e.g., prices, recipes, measurement, directions in play).	no					2			
3. Order, compare, read, group, and apply place value concepts to numbers up to 1,000.	partial	no grouping in 2007	no	A1(P)	yes	2, 3	2,3		
4. Determine reasonableness of results when working with quantities.	no, implied	everywhere in "understand"		A	yes	2,3,4,6	2,3,4		
ELEMENTARY GRADES 3-4									
Read, compare, order, classify, and explain whole numbers up to one million.	partial	no, classify in 1997		A1(3), A1(4), A1(5)	no, goes to grade 5	2,3	2,3,4		
2. Read, compare, order, classify, and explain simple fractions through tenths.	partial	no classify in 2007	no	A3(2), A4(3), A4(4)b	no	2,3	2,3,4		
Demonstrate knowledge of the meaning of decimals and ntegers and an understanding of how they may be used.	yes	yes	no	A5(4)a decimals A6(5)ab integers	no	2	2,3,4; 2,3,		
MIDDLE GRADES 5-8									
Use numbers in a variety of equivalent and interchangeable forms (e.g., integer, fraction, decimal, percent, exponential, and scientific notation) in problem-solving.	yes	yes	no	A4(4)b,c; A5(4)d; A5(5)d; A6(5);A2(6);A4(6); A1(7);A4(7)a; A1(8)		3	2,3,4		

								<u> </u>	
Demonstrate understanding of the relationships among the basic arithmetic operations on different types of numbers.	not explicitly	not explicitly, explicit limited to whole numbers	no	D3(3)a	no, earlier	4	3		
3. Apply concepts of ratios, proportions, percents, and number theory (e.g., primes, factors, and multiples) in practical and other mathematical situations.	yes	yes	no	A1(6)ab #theory; A4(6), A3(7), A4(7)	yes, span	3	2,3,4		
Represent numerical relationships in graphs, tables, and charts.	yes	yes	no	D3(4),D3(5), D3(6),	no	3	2,3,4		
SECONDARY GRADES									
Describe the structure of the real number system and identify its appropriate applications and limitations. Explain what complex numbers (real and imaginary) mean and	partial	no, less emphasis on structure 2007	no	A2(8)ab, A1(9)e		2	2,3,4		
describe some of their many uses.	no					2			
B. COMPUTATION									
Students will understand and demonstrate computation skills ELEMENTARY GRADES Pre-K-2	s. Students w	ill be able to:							
Use and apply estimation with quantities, measurements, computations, and problem-solving.	yes	yes	no	A,B	yes, but is stated for all grades	3	3		
Use multiple strategies in solving problems involving addition and subtraction of whole numbers.	yes	yes	no, but synonymous	A2(2), D1(2)bc	yes	3	2,3,4		
Show understanding of addition and subtraction by using a variety of materials, strategies, and symbols.	partial,	no, materials and symbols not specified	no	A2(2)	yes	3	2,3,4 in 2007 explain is added		
ELEMENTARY GRADES 3-4									
Solve multi-step, real-life problems using the four operations with whole numbers.	yes	no, multi-step and single step not separate	no	A2(3)b, A3(3)abd, A3(4), A3(5)	no	3	2,3,4		
Solve real-life problems involving addition and subtraction of		no, common denominators and intro to multiplication in							

Demonstrate and explain the problem-solving process using								
	not as an indicator					4		
Develop proficiency with the facts and algorithms of the four operations on whole numbers using mental math and a variety of materials, strategies, and technologies.	partial	mental, materials and technologies not explicit in 2007	no	A2(3),A3(3), A3(4)	span	3	3	
MIDDLE GRADES 5-8								
Compute and model all four operations with whole numbers, fractions, decimals, sets of numbers, and percents, applying the proper order of operations.	yes	yes	no	A2(5), A3(5), A4(5), A5(5)bc, A6(5)c;, A3(6), A5(6); A2(7)	span	3,4	3, 4	
Create, solve, and justify the solution for multi-step, real-life problems including those with ratio and proportion.	yes		no, real life in the statement of standard, not limited to multi- step in 2007	A2(5), A3(5), A4(5), A5(5)bc, A6(5)c; A3(6), A4(6), A5(6); A2(7), A3(7)bc, A4(7)b	span	3,4, 6	3,4,6	
SECONDARY GRADES								
Use various techniques to approximate solutions, determine the reasonableness of answers, and justify the results.	partial	partial, the 2007 is more specific	no	A1(9)bcd, D5(9)b	yes	3,6	3	
Explain operations with number systems other than base ten.	no					2		
C. DATA ANALYSIS AND STATISTICS								
Students will understand and apply concepts of data analysis ELEMENTARY GRADES Pre-K-2	. Students w	vill be able to:						
				B2(2), B2(3),				
Formulate and solve problems by collecting, arranging, and interpreting data.	yes	yes	no	B2(4)	no	3, 4	2,3,4	
Make tallies and graphs of information gathered from immediate surroundings.	no					3		
ELEMENTARY GRADES 3-4								
Make generalizations and draw conclusions using various	yes	yes (with K1)	no	B2(3), B2(4)	span	4	2,3,4	

2. Read and interpret displays of data.	yes	yes (with K1)	no	B2(3), B2(4)	span	2, 3	2,3,4	
MIDDLE GRADES 5-8								
Organize and analyze data using mean, median, mode, and range.	yes	yes, but quartiles in 2007	no	B4(6), B3(8)	span	3,4	3,4	
Assemble data and use matrices to formulate and solve problems.	no					3		
Construct inferences and convincing arguments based on data.	no explicit indicator	see "understand"				5		
SECONDARY GRADES								
1. Determine and evaluate the effect of variables on the results of data collection.	no					3,4		
Predict and draw conclusions from charts, tables, and graphs that summarize data from practical situations.	yes	yes	no	B1(7), B2(9)b, B3(9)b	no	4	2,3,4	
Demonstrate an understanding of concepts of standard deviation and correlation and how they relate to data analysis.	yes	yes	no	B2(9), B3(9)ac	yes	2, 4	2,3,4	
4. Demonstrate an understanding of the idea of random sampling and recognition of its role in statistical claims and designs for data collection.	yes	no, in 2007 application added	no	B(4)9	yes	2	2,3,4	
5. Revise studies to improve their validity (e.g., in terms of better sampling, better controls, or better data analysis techniques).	no					5		
D. PROBABILITY								
Students will understand and apply concepts of probability. S	Students will b	ne able to:						
ELEMENTARY GRADES Pre-K-2								
Use concepts of chance and record outcomes of simple events.	no					3		
ELEMENTARY GRADES 3-4								
Explain the concept of chance in predicting outcomes.	no					2		
Estimate probability from a sample of observed outcomes and simulations.	yes	yes	no	B2(7)b	no	3	3,4	
	-						· · · · · · · · · · · · · · · · · · ·	
MIDDLE GRADES 5-8								
Find the probability of simple events and make predictions by applying the theories of probability.	yes	yes	no	B2(7)	span	3	2,3,4	
Explain the idea that probability can be represented as a fraction between and including zero and one.	yes	yes	no	B2(7)c	span	2	2,3	

Use simulations to estimate probabilities.	yes	yes	no	B4(8)b	span	3	2,3,4	
Find all possible combinations and arrangements involving a	,	similar (used in			'			
limited number of variables.	yes	a context)	no	B4(8)c	span	3	3	
	J			- (0)-				
SECONDARY GRADES								
Find the probability of compound events and make predictions								
by applying probability theory.	yes	yes	no	B5(9)	yes	3,4	2,3,4	
Create and interpret probability distributions.	yes	yes	no	B5(9)	yes	3	2,3,4	
		-						
E. GEOMETRY								
Students will understand and apply concepts from geometry	. Students will	be able to:				1		
ELEMENTARY GRADES Pre-K-2								
1. Describe, model, and classify 2D shapes and selected 3D		model changed						
figures.	yes	to create	no	C1(2)ab	yes	2,3,4	2,3	
		no, investigate,						
2. Investigate and predict the results of combining, dividing, and		predict changed						
changing 2D shapes.	partial	to create	no	C1(2)c, C1(3)b	no	3	3	
3. Use positional words to describe the relationship of two or								
more objects (e.g., over, under, beside, to the left).	no					2		
ELEMENTARY GRADES 3-4								
		no, "model" lost						
Describe, model, and classify shapes and figures using		in 2007, sketch,		04/0) 1 04/1)		0.04	0.04	
applicable properties.	partial	identify added	no	C1(3)acd;C1(4)	span	2, 3,4	2,3,4	
		no experiments,						
Experiment with shapes and figures to make generalizations		generalizations						
regarding congruency, symmetry, and similarity.	partial	or similarity	no	C3(4)		4	2,3	
3. Use transformations such as slides, flips, and rotations.	yes	yes	no	C5(5)	no	3	2,3	
Use the properties of shapes and figures to describe the physical world.	no indicator					3		
physical world.	no muicatoi	-				3		
MIDDLE GRADES 5-8								
INIDDEE SIGNES STO								
4 Common plans (for and discussion discussio				C1(4), C1(5),				
Compare, classify, and draw two dimensional shapes and three dimensional figures.	yes	yes	no	C1(4), C1(3), C1(6),	no	2,3	2,3	
	, , ,	real life not	110	C1(0),	110	2,0	2,0	
Apply geometric properties to represent and solve real-life problems involving regular and irregular shapes.	yes	specified	no	C1(7), C1(8), C2(8), C3(8)		3, 4		
problems involving regular and integular snapes.	yes	Specificu	110	02(0), 03(0)	1	J, 4		

3. Use a coordinate system to define and locate position.	yes	yes	no	C4(5)a,b	span	3	2,3,4	
			no, use of tools					
			not stated,					
			sketch is used	C1(4); C3(5)d;				
4. Use the appropriate geometric tools and measurements to				C4(5)c; C1(6)ac,				
draw and construct two and three dimensional figures.	partial	yes	dimensions	C5(6) C3(7)ab	no	3	3	
SECONDARY GRADES								
1. Draw coordinate representations of geometric figures and their								
transformations.	no					3		
2. Use inductive and deductive reasoning to explore and				C1(8), C2(8), C1(9)abc;				
determine the properties of and relationships among geometric figures.	yes	yes	no	C2(9)abc,	no	3,4,5	3,4,5	
<u> </u>	yes	,	TIO	02(7)ab	110	3,4,3	J,T,U	
3. Apply trigonometry to problem situations involving triangles and periodic phenomena.	partial	only right in 2007	no	C3(9)	yes	3	3,4	
F. MEASUREMENT								
Students will understand and demonstrate measurement skil	lls. Students	s will be able to:						
ELEMENTARY GRADES Pre-K-2	lioi Gtadonita	s will be able to.						
		s will be able to.		B1(2), C2(2),				
ELEMENTARY GRADES Pre-K-2	yes	yes	no	B1(2), C2(2), C1(5)	no	3	3,4	
ELEMENTARY GRADES Pre-K-2 1. Estimate and measure length, time, temperature, weight, and			no yes		no yes	3	3,4	
1. Estimate and measure length, time, temperature, weight, and capacity. 2. Identify and give the value of different coins.	yes yes	yes		C1(5)				
ELEMENTARY GRADES Pre-K-2 1. Estimate and measure length, time, temperature, weight, and capacity. 2. Identify and give the value of different coins. 3. Select standard and non-standard tools for determining length,	yes yes	yes		C1(5) B1(2)c				
1. Estimate and measure length, time, temperature, weight, and capacity. 2. Identify and give the value of different coins.	yes yes	yes		C1(5) B1(2)c B1(2),B1(3),				
ELEMENTARY GRADES Pre-K-2 1. Estimate and measure length, time, temperature, weight, and capacity. 2. Identify and give the value of different coins. 3. Select standard and non-standard tools for determining length, time, temperature, weight, and capacity, and use them to solve	yes yes	yes yes	yes	C1(5) B1(2)c B1(2),B1(3), B1(4), B1(5);	yes	1	1	
ELEMENTARY GRADES Pre-K-2 1. Estimate and measure length, time, temperature, weight, and capacity. 2. Identify and give the value of different coins. 3. Select standard and non-standard tools for determining length, time, temperature, weight, and capacity, and use them to solve every day problems.	yes yes	yes yes	yes	C1(5) B1(2)c B1(2),B1(3), B1(4), B1(5); C2(2)	yes	1	1	
ELEMENTARY GRADES Pre-K-2 1. Estimate and measure length, time, temperature, weight, and capacity. 2. Identify and give the value of different coins. 3. Select standard and non-standard tools for determining length, time, temperature, weight, and capacity, and use them to solve every day problems. ELEMENTARY GRADES 3-4	yes yes	yes yes	yes	C1(5) B1(2)c B1(2),B1(3), B1(4), B1(5);	yes	1	1	
ELEMENTARY GRADES Pre-K-2 1. Estimate and measure length, time, temperature, weight, and capacity. 2. Identify and give the value of different coins. 3. Select standard and non-standard tools for determining length, time, temperature, weight, and capacity, and use them to solve every day problems.	yes yes	yes yes	yes	C1(5) B1(2)c B1(2),B1(3), B1(4), B1(5); C2(2) B1(3)b, B1(4)b,	yes	1	1	
ELEMENTARY GRADES Pre-K-2 1. Estimate and measure length, time, temperature, weight, and capacity. 2. Identify and give the value of different coins. 3. Select standard and non-standard tools for determining length, time, temperature, weight, and capacity, and use them to solve every day problems. ELEMENTARY GRADES 3-4 1. Solve and justify solutions to real-life problems involving the	yes yes	yes yes	yes	C1(5) B1(2)c B1(2),B1(3), B1(4), B1(5); C2(2) B1(3)b, B1(4)b, B1(5)b; C2(2),	yes	1	1	
ELEMENTARY GRADES Pre-K-2 1. Estimate and measure length, time, temperature, weight, and capacity. 2. Identify and give the value of different coins. 3. Select standard and non-standard tools for determining length, time, temperature, weight, and capacity, and use them to solve every day problems. ELEMENTARY GRADES 3-4 1. Solve and justify solutions to real-life problems involving the measurement of time, length, area, perimeter, weight,	yes yes	yes yes yes	yes	C1(5) B1(2)c B1(2),B1(3), B1(4), B1(5); C2(2) B1(3)b, B1(4)b, B1(5)b; C2(2), C2(3), C2(4),	yes no	2,3	2,3	
ELEMENTARY GRADES Pre-K-2 1. Estimate and measure length, time, temperature, weight, and capacity. 2. Identify and give the value of different coins. 3. Select standard and non-standard tools for determining length, time, temperature, weight, and capacity, and use them to solve every day problems. ELEMENTARY GRADES 3-4 1. Solve and justify solutions to real-life problems involving the measurement of time, length, area, perimeter, weight, temperature, mass, capacity, and volume.	yes yes	yes yes yes	yes	C1(5) B1(2)c B1(2),B1(3), B1(4), B1(5); C2(2) B1(3)b, B1(4)b, B1(5)b; C2(2), C2(3), C2(4), C2(5), C3(5)c	yes no	2,3	2,3	
ELEMENTARY GRADES Pre-K-2 1. Estimate and measure length, time, temperature, weight, and capacity. 2. Identify and give the value of different coins. 3. Select standard and non-standard tools for determining length, time, temperature, weight, and capacity, and use them to solve every day problems. ELEMENTARY GRADES 3-4 1. Solve and justify solutions to real-life problems involving the measurement of time, length, area, perimeter, weight, temperature, mass, capacity, and volume. 2. Select measuring tools and units of measurement that are	yes yes yes	yes yes yes	yes no no	C1(5) B1(2)c B1(2),B1(3), B1(4), B1(5); C2(2) B1(3)b, B1(4)b, B1(5)b; C2(2), C2(3), C2(4), C2(5), C3(5)c B1(3)a, B1(4)a,	yes no no	2,3	2,3	

		emphasis on						
Demonstrate the structure and use of systems of		conversion for		B1(5), B1(6),				
measurement.	partial	structure	no	B2(8)a	span	3	3,4	
2. Develop and use concepts that can be measured directly, or								
indirectly (e.g., the concept of rate).	yes	yes	no	B1(8), B2(8)b	span	3,5	2,3,4	
3. Demonstrate an understanding of length, area, volume, and								
the corresponding units, square units, and cubic units of				C2(3), C2(4),				
measure.	yes	yes	no	C2(5), C4(9)b	no	2,3	2,3,4	
SECONDARY GRADES								
1. Use measurement tools and units appropriately and recognize		no, no tool use						
limitations in the precision of the measurement tools.	partial	in 2007	no	B1(9)a	yes	3	2,3,4	
2. Derive and use formulas for area, surface area, and volume of				B3(5), B3(6),				
many types of figures.	yes	yes	no	B4(8), B4(9)	no	3,5	2,3,4	
	J 0 3	703	110	51(0), 54(7)	110	5,5	2,0,7	
G. PATTERNS, RELATIONS, FUNCTIONS								
							<u> </u>	
Students will understand that mathematics is the science of	patterns, relat	ionships, and fu	nctions. Stud	ents will be able	to:			
ELEMENTARY GRADES Pre-K-2								
1. Recognize, describe, extend, copy, and create a wide variety								
of patterns.	yes	yes	no	D3(2)	yes	2, 3	2,3,4	
		no ovnloro						
		no explore,						
		variables						
2. Explore the use of variables and open sentences to describe		orrelationships						
relationships.	partial	in 2007	no	D2(2)	yes	3	2,3,4	
3. Represent and describe both geometric and numeric								
relationships.	partial	numeric in 2007	no	D1(2)	yes	2,3	2,3,4	
	<u> </u>					•		
ELEMENTARY GRADES 3-4								
Use the patterns of numbers, geometry, and a variety of				D4(3), D3(4),	no, graphs			
graphs to solve a problem.	VOS	VOS	no	D4(5), D3(4), D3(5)	in 5	3	3,4	
graphs to solve a problem.	yes	yes	no	D3(3)	III O	J	3,4	
Use variables and open sentences to express relationships.	yes	ves	no	D1(4)	span	3	3	
	,	, , ,		2.(.)	350		<u> </u>	
MIDDLE GRADES 5-8								
		no, formulas						
1 Describe and represent relationships with tables, graphs, and		and diagrams		D3(5), D3(6),				
1. Describe and represent relationships with tables, graphs, and equations.	VAS	added in 2007	no	D3(3), D3(0), D3(7), D3(8)	snan	3	2,3,4	
	yes	auueu III 2007	IIU		span	ა	۷,۵,4	
2. Analyze relationships to explain how a change in one quantity				D3(6), D3(7),				
can result in a change in another.	yes	yes	no	D3(8)	span	4	2,3,4	

Use patterns and multiple representations to solve problems.	yes	yes	no, patterns no explicit in 2007 but implicit		span	3	2,3,4	
SECONDARY GRADES								
Create a graph to represent a real-life situation and draw inferences from it.	yes	yes	real life not explicit in 2007 but see understand	D4(9), B2(9)b	yes	3,4	2,3,4	
Translate and solve a real-life problem using symbolic language.	Voc	close	translate not present in 2007 seee understand	D4(9)	Voc	3	2,3,4	
3. Model phenomena using a variety of functions (linear, quadratic, exponential, trigonometric, etc.).	yes	yes	no	D4(9)	yes	3	2,3,4	
Identify a variety of situations explained by the same type of function.	no	, , , , , , , , , , , , , , , , , , ,				2	727	
H. ALGEBRA CONCEPTS								
Students will understand and apply algebraic concepts. Stud	ents will be	able to:						
ELEMENTARY GRADES Pre-K-2 1. Make drawings for problem situations and mathematical expressions in which there is an unknown, using a variety of tools and approaches.	no					3		
Use language and symbols to express numerical and other relationships.	partial	only numbers and symbols in 2007	no	D1(2)	yes	3	2,3	
ELEMENTARY GRADES 3-4								
Develop and evaluate simple formulas in problem-solving contexts.	yes	yes	no	D1(3), D1(4)	span	3	3	
Find replacements for variables that make simple number sentences true.	yes	yes	no	D2(3), D2(4)	span	3	3	
MIDDLE GRADES 5-8								
			•	•	•			1

	I							T
			no, so broad in					
			M4H1.8					
			anything could	D1(5), D1(6),				
Use the concepts of variables and expressions.	yes	yes	fit here	D1(7), D1(8)	span	3	3	
2. Solve linear equations using concrete, informal, and formal				D2(6), D2(7)a,				
methods which apply the order of operations.	yes	yes	yes	D2(8)	span	3	3	
,	, , ,	,	,	D3(5), D3(6),			-	
Analyze tables and graphs to identify properties and relationships in a practical context.	VOC	voc	no	D3(3), D3(6), D(3)7,D4(8)	cnan	4	2,3,4	
	yes	yes	no		span			
4. Use graphs to represent two-variable equations.	yes	yes	no	D4(8)C	span	3	2,3,4	
5. Demonstrate an understanding of inequalities and non-linear	VOC.	woo.	W00	D2(4) D2(0)	cnon	2	2.2.4	
equations.	yes	yes	yes	D2(6), D3(8)	span	2	2,3,4	
			no, nonlinear	D2(6), D2(7)a,				
6. Find solutions for unknown quantities in linear equations and in			not until 9-D	D2(8), D3(8),				
simple equations and inequalities.	yes	yes	level	D(2)9	no	3	2,3,4	
SECONDARY GRADES								
		spreadsheets						
1. Use tables, graphs, and spreadsheets to interpret expressions, equations, and inequalities.	partial	limited	no	D4(9), D5(9)	WOC.	3	2,3,4	
equations, and mequalities.	partiai		no	D4(9), D3(9)	yes	3	2,3,4	
		data not						
2. Investigate concepts of variation by using equations, graphs,	partial, very	specified, but						
and data collection.	close!	tables are	no	D4(9)c	yes	3	2,3,4	
		does not say						
3. Formulate and solve equations and inequalities.	partial	formulate	no	D2(9), D3(9)	yes	3	2,3,4	
<u>'</u>				() ()	,			
4. Analyze and explain situations using symbolic representations.	yes	yes	no	D4(9), D5(9)	yes	4	2,3,4	
		,			,			
I. DISCRETE MATHEMATICS								
I. DISCRETE MATHEMATICS								
Students will understand and apply concepts in discrete matl	nomotice Stud	onto will bo ob	lo to:					
ELEMENTARY GRADES Pre-K-2	lemancs. Stud	The and	ie to.					
Classify sets of objects into two or more groups using their attributes.	no					2		
Create and use an organized list to determine possible								
outcomes or solve problems.	no					3		
ELEMENTARY GRADES 3-4								
1. Create and use organized lists, tree diagrams, Venn diagrams,								
and networks.	no					3		
2. Give examples of infinite and finite solutions.	no					2		
· ·				1				

MIDDLE GRADES 5-8								
1. Create and use networks to explain practical situations or solve								
problems.	no					3		
2. Identify patterns in the world and express these patterns with rules.	yes	yes	no	D1(5), D1(6), D1(7)	span	3	3	
SECONDARY GRADES								
		partial, systems of linear						
1. Use linear programming to find optimal solutions to a system.	partial	equations	no	D2(9)a	yes	3	3	
Use networks to find solutions to problems.	no					3		
Apply strategies from game theory to problem-solving situations.	no					3		
Use matrices as tools to interpret and solve problems.	no					3		
J. MATHEMATICAL REASONING								
S. MATTEMATICAL REAGONING								
Students will understand and apply concepts of mathematica	I reasoning.	Students will be	able to:					
ELEMENTARY GRADES Pre-K-2								
		see						
Describe a simple argument's strengths and weaknesses.	no indicator	"understand"				4		
Distinguish between "important" and "unimportant" mathematical information.	no indicator	see "understand"				2		
ELEMENTARY GRADES 3-4								
Demonstrate an understanding that support for a claim should be based on evidence of various types (e.g., from logical processes, from measurement, or from observation and experimentation).	no indicator					2		
MIDDLE GRADES 5-8								
Support reasoning by using models, known facts, properties, and relationships.	no indicator explicit	see "understand"				4, 5		
Demonstrate that multiple paths to a conclusion may exist.	no					3		
SECONDARY GRADES								
 Analyze situations where more than one logical conclusion can be drawn from data presented. 	no					4		

K. MATHEMATICAL COMMUNICATION							
R. MATHEMATICAL COMMUNICATION							
Students will reflect upon and clarify their understanding of n	nathematical id	eas and relation	nships. Stude	nts will be able	to:		
ELEMENTARY GRADES Pre-K-2							
1. Use numerals and symbols (>, <, =, +, -) to report numerical							
data and relationships.	no					2	
ELEMENTARY GRADES 3-4							
Use simple tables and graphs to communicate ideas and				B2(3), B3(3);			
information in presentations in a concise and clear manner.	yes	yes	no	B2(4)	span	3	2,3,4
MIDDLE GRADES 5-8							
				D1/F) D1//)			
				D1(5), D1(6), D1(7), D3(5),			
				D3(6), D3(7),			
Translate relationships into algebraic notation.	yes	yes	no	D3(8)	span	3	2,3,4
· · · · · ·	yes, except for			B2(5), B3(5),	<u>'</u>		
Use statistics, tables, and graphs to communicate ideas and information in convincing presentations and analyze	bias and			B3(6), B4(6),			
presentations of others for bias or deceptive presentation.	deceptive	no	no	B1(7), B3(8)	span	3,4,5,6	2,3,4
SECONDARY GRADES							
1. Restate, create, and use definitions in mathematics to express							
understanding, classify figures, and determine the truth of a		see					
proposition or argument.	no indicator	"understand"				2,3,4,5	
2. Read mathematical presentations of topics within the Learning							
Results with understanding.	no indicator	see introduction				2	
Standards, Pls, Descriptors NOT found in 1997 document							
A1(3) use words for numbers							
A1(4)d round to 100							
A1(5)b round to place value apropriate for given contexts							
A1(9)a. Use the concept of nth root.							
A5(4) Round decimals							
B1(9) b. Know how to represent an approximate measurement using sic	ınificant figures.						
B1(9)c. Know that most measurements are approximations and underst		ul to take the mea	an of repeated m	neasurements.			
B3(8)quartiles	, J.1.12 2.00.		Iv				
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B3(9)a quartiles, mean absolute deviation,				
B3(9)b - interpret, give examples of and describe key differences b	atwoon different types of idtributions:	uniform, normal and skowed		
B3(9)c For the sample mean of normal distributions, use the standard	rd deviation for a group to establish 9	0%, 95% and 99% confidence inter	vals.	
C4(6) Understand and use reflections, rotations, and translations to	define and identify congruent plane fi	gures.		
C4(6)a. Apply the understanding that if a plane figure can be laid or	top of another plane figure by rotatio	ns, translations or reflections then t	he figures are congruent.	
C5(6) Know how to use proportional relationships to make indirect	inear measurements and use scale dr	awings to make linear measuremer	nts.	
D1(9) Understand and use, polynomials, and expressions with ratio	nal exponents.			
D1(9)a. Simplify expressions with rational exponents.				
D1(9)d divide polynomials by ax + b				
D3(3)b. Be able to show that for whole numbers subtraction and div	rision are not commutative and show t	hat multiplication and addition are o	ommutative.	
D5(9) students express relationships recursively and use iterative r	nethods to solve problems			
D5(9)a express the (n+1)st term in terms of the nth term etc.				
D5(9)b use technology to perform repeated calculations to develop	solutions, etc. (weak match to old sec	ondary B1)		
% increase or decrease # of Standards	(-7), -63%			
11-7=4				
% increase or decrease # of Performance Indicators	0			
117-109 = 8	-8, -7% (but includes separate gi	rades 3-8 instead of 2 spans)		